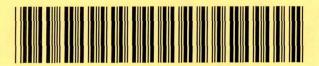
# \*609IHSSF1099\*



DocumentID

NONCD0002852

Site Name

**CLAYTON FARMS** 

DocumentType

Ranking (RANK)

RptSegment

1

DocDate '

7/7/2011

DocRcvd

7/7/2011

Box

SF1099

AccessLevel

**PUBLIC** 

Division

WASTE MANAGEMENT

Section

**SUPERFUND** 

Program

IHS (IHS)

DocCat

**FACILITY** 

<u>47.38</u>

# INACTIVE SITES RANKING SYSTEM SUMMARY SHEET

Site Name: Clayton Farms	
Location: 1833 Loop Road	
ID Number: NONCD0002852	
Ranked By: John Walch	Date: <u>07/7/2011</u>
Reviewed By: Keith Snavely	Date: <u>7/7/2011</u>
·	
Site Description/Comments:	
The site is a former DuPont crop protection chemical testing farm ufacility was used to pilot test agriculture products on row crops accusubsequently been used as a tobacco farm. Pesticides have been det concentration above Branch remedial goals.	ording to DuPont. The site has
*** This site ranking supersedes any previous site ranking perform	ed on this site.
Route Scores: GW = 69.84 SW = 60.53	A = 0

 $\frac{((69.84)_2+(60.53)_2+(0)_2+(21)_2)_{1/2}}{(69.84)_2+(60.53)_2+(60.53)_2+(60.53)_2+(60.53)_2} =$ 



#### I. GROUND WATER ROUTE WORK SHEET

Rating Factor	Assigned Value (Choose One)	Score	
Route Characteristics			
1. Depth to Water Table	0 2 4 6 8 10	8	
2. Net Precipitation	0 1(2)3	2	
3. Hydraulic Conductivity	0 1 (2) 3	2	
4. Physical State	0 1 2 3	3	
	Total Route 0	Characteristics Score	15
B. Containment	0 1 2 3		3

#### C. Waste Characteristics

1. Toxicity/Persistence

0 3 6 9 12 15 18

18

2. Hazardous Waste Quantity

0 1 2 3 4 5 6 7 8

5

Total Waste Characteristics Score

23

Ground Water Route of Migration Score

The Ground Water Route of Migration Score is obtained by multiplying lines A, B, and C and dividing this by 14.82 to give a score between 0 and 100.

Total Ground Water Route of Migration Score:

69.84

# II. SURFACE WATER ROUTE WORK SHEET

Rating Factor	Assigned Value (Choose One)	Score	
A. Route Characteristics			
Facility Slope and     Intervening Terrain	0 1 2 3	0	
2. 1-yr., 24-hour Rainfall	0 1 2 3	2	
3. Distance to Nearest Surface Water	0 2 4 6 8 10	8	
4. Physical State	0 1 2 3	3	
	Total Route C	haracteristics Score	13
B. Containment	0 1 2 3		3
C. Waste Characteristics			
1. Toxicity/Persistence	0 3 6 9 12 15 18	18	
2. Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	5	
	Total Waste C	haracteristics Score	23

Surface Water Route of Migration Score

The Surface Water Route of Migration Score is obtained by multiplying lines A, B, and C and dividing this by 14.82 to give a score between 0 and 100.

Total Surface Water Route of Migration Score:	60.53

# III. AIR ROUTE WORK SHEET

Rating Factor	Assigned Value (Choose One)	Score	
A. Waste Characteristics			
1. Reactivity and Incompatibility	0 1 2 3		
2. Toxicity	0 3 6 9		
3. Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8		
	Total W	aste Characteristics Score	-
B. Targets			
<ol> <li>Population Within a 4-Mile Radius</li> </ol>	0 9 12 15 18 21 24 27 30	0	
2. Distance to Sensitive Environment	0 2 4 6		
3. Land Use	0 1 2 3		
	7	Fotal Targets Score	
Air Route of Migration Score	<u> </u>	Targots Deole	<u> </u>

The Air Route of Migration Score is obtained by multiplying lines A and B and dividing this by 7.80 to give a score between 0 and 100.

Total Air Route of Migration Score:	0

# IV. DIRECT CONTACT ROUTE SCORE SHEET

Rating Factor	Assigned Value (Choose One)	Score	
A. Residential Population  1. Toxicity	0 3 6 9		
2. Targets			
a) High Risk Population (count x 8, max. 100)			
b) Total Resident Population (count x 2, max. 100)			
c) Sensitive Environment	0 10 15 20 25		
Resident Target Score (lines 2a + 2b + 2c, max. 100)	·		
	Total Residential	Population Score	0
B. Nearby Population		<del></del>	· <del></del>
Likelihood of Exposure     (matrix score)	1		
a) Area of Contamination	0 25 50 75 100	100	
b) Accessibility/ Frequency of Use	5 25 50 75 100	75	
2. Toxicity	0 3 6 9	9	
3. Targets (max. 100)	42		٠
	Total Nearby Po	pulation Score	378
Overall Population Exposure Score	72		
The Overall Population Exposure Scor B and dividing this by 18 to give a scor	re is determined by adding lines A and re between 0 and 100.		

21

Total Population Exposure Route of Migration Score:

### DOCUMENTATION RECORDS FOR STATE HAZARD RANKING SYSTEM

INSTRUCTIONS: Briefly summarize the information you used to assign a score to each factor and document the source of the information and/or the rationale for each score.

Facility Name	e: Clayton Farms
ID Number:	NONCD0002852
Location:	1833 Loop Road
Date Scored:	07/7/2011
Person Scorin	g: John Walch
Factors Not S	cored: Air Route, Residential Poplulation
<u></u>	
Comments:	
References:	
1.	Clayton Farms State Superfund Section File, Raleigh, NC
2.	North Carolina Atlas, University of NC Press, Chapel Hill, NC, 1975.
	Rainfall Frequency Atlas of the US, Technical Paper 40, US Department of Commerce, Washington, DC, 1963.
, 1	2010 2000 Census of Population and Housing: Summary Population and Housing Characteristics: North Carolina, US Department of Commerce. http://quickfacts.census.gov/qfd/.
5.	Dangerous Properties of Industrial Materials , N. Irving Sax, Van Reinhold Company, Inc., 1984.
6.	40 CFR 300, Appendix A, July 1, 1988.
7.	Johnston County NC GIS Website http://www.johnstonnc.com

8.



#### **GROUND WATER ROUTE**

A.	Route Characteristics:			Reference			
	1.	Depth to Water Table:					
		8: Contamination in groundwater	(	1	)		
	2.	Net Precipitation:					
		2: 48in. mean annual precip 41 in. mean annual evap. = 7 in.	(	2	)		
	3. Hydraulic Conductivity of Unsaturated Zone:						
		2: Piedmont	(	1	)		
	4.	Physical State:					
		3: Liquid	(	1	)		
B.	Conta	ninment:					
	3: No	o containment	(	1	)		
C.	Wast	e Characteristics:					
	1.	Toxicity/Persistence:					
		18: Pesticides including DDT and Toxaphene	(	1, 5	; )		
	2.	Hazardous Waste Quantity:					
		5: Quantity unknown	(	1	)		

# SURFACE WATER ROUTE

A.	A. Route Characteristics:		Re	feren	ce
	1.	Facility Slope and Intervening Terrain:  0: Facility slope and terrain less than 3%	(	1, 7	)
	2.	One-year 24-hour Rainfall: 2: One year 24-hr rainfall = 3.1 inches	(	3	)
	3.	Distance to Nearest Surface Water/Name: 8: Location of contamination unknown. Agricultural fields within 200 ft of on-site pond based on aerial photo.	(	1, 7	)
	4.	Physical State: 3: Liquid	(	1	)
В.		ninment: o containment	(	1	)
C.	Waste	e Characteristics:			
	1.	Toxicity/Persistence: 18: Pesticides including DDT and Toxaphene	(	1, 5	)
	2.	Hazardous Waste Quantity: 5: Quantity unknown	(	1	)

AIR ROUTE

A.	Wast	Waste Characteristics: NOT SCORED		Referenc	
	1.	Reactivity and Incompatibility:			
				(	)
	2.	Toxicity:			
				(	2
	3.	Hazardous Waste Quantity:			
				(	,
B.	Targ	ets:			
	1.	Population within 4-mile Radius/Distance from Hazardous Substance:			
				(	,
	2.	Distance to Sensitive Environment:			
				(	
	3.	Land Use:	•		
				,	,

# POPULATION EXPOSURE ROUTE

A.	Resid	lential Population: NOT SCORED	Reference	
	1.	Toxicity:	, ,	
			( )	
	2.	Targets:		
		a. High Risk Population:		
			( )	
		b. Total Resident Population:		
			( )	
		c. Sensitive Environment:		
			( )	į
В.	Near	by Population:	` '	
	1.	Likelihood of Exposure Score:		
		a. Area of Contamination:		
		100: Area of contamination unknown. property is 39.27 acres, assume 1/3 contaminated	( 1,7	)
		b. Accessibility/Frequency of Use:		
		75: Observed contamination on land with no continuous barrier to entry	( 1	)
	2.	Toxicity:		
		9: Pesticides including DDT and Toxaphene	( 1,5	)
	3.	Targets: $0.1 \ (\underline{167.44}) + 0.05 \ (\underline{502.32}) = \underline{41.86}> 42$		
		a. $0 - \frac{1}{2}$ mile: $3.14 (0.5^2)x \frac{213.3}{}$ people/ <sub>sq.mi</sub> = $167.44$	(4)	
		b. $\frac{1}{2}$ - 1 mile: 3.14 $(1^2 - 0.5^2)x_{213.3}$ people/ <sub>sq.mi.</sub> = 502.32	(4)	)
		Notes:		

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Initials

Reset Form